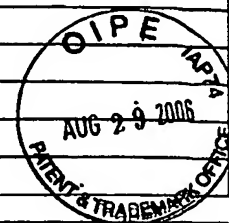


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	First Named Inventor	Katsuro Tachibana
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(Multiple sheets used when necessary)	Examiner	Richard A. Schnizer
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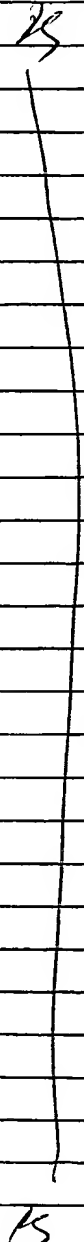
U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
RS	1	3,433,226	03-18-1969	Boyd	
	2	4,027,659	06-07-1977	Slingluff	
	3	4,040,414	08-09-1977	Suroff	
	4	4,319,580	03-16-1982	Colley et al.	
	5	4,354,502	10-19-1982	Colley et al.	
	6	4,512,762	04-23-1985	Spears	
	7	4,531,943	06-30-1985	Val Tassel et al.	
	8	4,573,470	03-1986	Samson et al.	
	9	4,582,067	04-15-1986	Silverstein et al.	
	10	4,750,902	06-14-1988	Wuchinich et al.	
	11	4,767,402	08-30-1988	Kost et al.	
	12	4,780,212	10-25-1988	Kost et al.	
	13	4,808,153	02-28-1989	Parisi	
	14	4,870,953	10-03-1989	don Micheal et al.	
	15	4,877,031	10-31-1989	Conway et al.	
	16	4,917,102	04-17-1990	Miller et al.	
	17	4,917,088	04-17-1990	Crittendon	
	18	4,920,954	05-01-1990	Alliger et al.	
	19	4,924,863	05-15-1990	Sterzer	
	20	4,936,281	06-26-90	Stasz	
	21	4,955,863	09-11-1990	Walker et al.	
	22	4,971,991	11-20-1990	Umemura et al.	
	23	4,992,257	02-12-1991	Bonnett et al.	
	24	5,007,898	04-1991	Rosenbluth et al.	
	25	5,021,044	06-04-1991	Sharawy	
	26	5,149,319	09-22-1992	Unger	
	27	5,158,071	10-27-1992	Umemura et al.	
	28	5,163,421	11-17-1992	Bernstein et al.	
RS	29	5,190,766	03-02-1993	Ishihara	

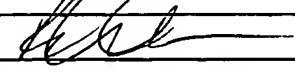
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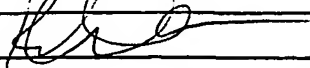
U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	30	5,197,946	03-30-1993	Tachibana	
	31	5,250,034	10-05-1993	Appling et al.	
	32	5,267,954	12-07-1993	Nita	
	33	5,267,985	12-07-1993	Shimada et al.	
	34	5,269,291	12-14-1993	Carter	
	35	5,282,785	02-01-1994	Shapland et al.	
	36	5,286,254	02-15-1994	Shapland et al.	
	37	5,295,484	03-22-1994	Marcus et al.	
	38	5,304,115	04-19-1994	Pflueger et al.	
	39	5,318,014	06-07-1994	Carter	
	40	5,323,769	06-28-1994	Bommannan et al.	
	41	5,327,891	07-12-1994	Rammner	
	42	5,328,470	07-12-1994	Nabel et al.	
	43	5,344,435	09-06-1994	Turner et al.	
	44	5,345,940	09-13-1994	Seward et al.	
	45	5,353,798	10-11-1994	Sieben	
	46	5,354,279	10-11-1994	Hofling	
	47	5,362,309	11-08-1994	Carter	
	48	5,363,853	11-15-1994	Lieber	
	49	5,368,036	11-29-1994	Tanaka et al.	
	50	5,380,273	01-10-1995	Dubrul et al.	
	51	5,390,678	02-21-1995	Gesswein et al.	
	52	5,419,763	05-1995	Hildebrand	
	53	5,421,338	06-06-1995	Crowley et al.	
	54	5,423,797	06-13-1995	Sorin et al.	
	55	5,431,663	07-11-1995	Carter	
	56	5,445,155	08-29-1995	Sieben	
	57	5,447,509	09-05-1995	Mills et al.	
	58	5,458,568	10-17-1995	Racchini et al.	

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	Art Unit	1635
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U.S. PATENT DOCUMENTS					
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DS	59	5,465,726	11-14-1995	Dickinson et al.	
	60	5,474,530	12-12-1995	Passafaro et al.	
	61	5,474,531	12-12-1995	Carter	
	62	5,489,279	02-06-1996	Meserol	
	63	5,498,238	03-12-1996	Shapland et al.	
	64	5,509,896	04-23-1996	Carter	
	65	5,514,092	05-07-1996	Forman et al.	
	66	5,520,189	05-28-1996	Malinowski et al.	
	67	5,542,935	08-1996	Unger et al.	
	68	5,567,687	10-22-1996	Magda et al.	
	69	5,569,198	10-29-1996	Racchini	
	70	5,594,136	01-14-1997	Sessler et al.	
	71	5,599,923	02-04-1997	Sessler et al.	
	72	5,603,327	02-18-1997	Eberle	
	73	5,606,974	03-04-1997	Castellano et al.	
	74	5,616,342	04-01-1997	Lyons	
	75	5,617,851	04-08-1997	Lipkovker	
	76	5,618,275	04-08-1997	Bock	
	77	5,620,479	04-15-1997	Diederich	
	78	5,628,728	05-13-1997	Tachibana et al.	
	79	5,628,730	05-13-1997	Shapland	
	80	5,630,837	05-20-1997	Crowley	
	81	5,632,970	05-27-1997	Sessler et al.	
	82	5,660,180	08-26-1997	Malinowski et al.	
	83	5,663,327	09-02-1997	Tarabo et al.	
	84	5,695,460	12-09-1997	Siegal et al.	
	85	5,707,608	01-13-1998	Liu	
TS	86	5,725,494	03-10-1998	Brisken	
	87	5,733,572	03-31-1998	Unger et al.	

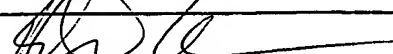
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U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
RS	88	5,735,811	04-07-1998	Briskin	
	89	5,770,222	06-23-1998	Unger et al.	
	90	5,779,644	07-1998	Eberle et al.	
	91	5,846,218	12-08-1998	Briskin et al.	
	92	5,849,727	12-15-1998	Porter et al.	
	93	5,916,192	06-29-1999	Nita et al.	
	94	5,997,497	12-07-1999	Nita et al.	
	95	6,001,069	12-14-1999	Tachibana et al.	
	96	6,024,718	02-15-2000	Chen et al.	
	97	6,096,000	08-01-2000	Tachibana, et al.	
	98	6,117,858	09-12-2000	Porter et al.	
	99	6,136,792	10-2000	Henderson	
	100	6,210,356	04-03-2001	Anderson et al.	
	101	6,228,046	05/08/01	Briskin	
RS	102	6,245,747	06/12/01	Porter et al.	
	103	6,287,271	09/11/01	Dubrul et al.	
	104	6,372,498	04/16/02	Newman et al.	

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Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T <sup>1</sup>
RS	105	DE 39 19 592 A1	02-22-1990	Olympus Optical Co.		
	106	DE 40 05 743	08-29-1991	Wolf GMBH Richard		
	107	EP 0 529 675	08-31-1992	Ethicon Inc.		
	108	EP 0 629 382	11-08-1993	Vidamed Inc.		
	109	EP 668052 A2	02-17-1995	Olympus Optical Co.		
	110	WO 89/04142	05-18-1989	Circulation Res Ltd.		
	111	WO 91/09629	07-11-1991	Unger Evan C		
	112	WO 92/07622	05-14-1992	BSD Medical Corp.		

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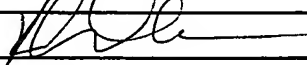
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	Art Unit	1635
SHEET 5 OF 6		Examiner Richard A. Schnizer
		Attorney Docket No. EKOS.8CP3DV1C4

FOREIGN PATENT DOCUMENTS						
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RS	113	WO 93/08738	05-13-1993	Mayo Foundation		
	114	WO 94/05361	03-17-1994	Cortrak Medical Inc.		
	115	WO 95/01751	01-19-1995	Boston Scientific Corp.		
	116	WO 96/27341	09-12-1996	Ekos LLC		
	117	WO 96/29935	10-03-1996	Boston Scientific Corp.		
	118	WO 96/35469	11-14-1996	Cardiogenesis Corp.		
	119	WO 96/36286	11-21-1996	Coraje Inc.		
	120	WO 97/19645	06-05-1997	Pharmasonics Inc.		
	121	WO 98/11826	03-26-1998	Heart Rhythm Tech Inc.		
	122	WO 98/48711	11-05-1998	Ekos Corp.		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>1</sup>
RS	123	Bao, et al. "Transfection of a Reporter Plasmid into Cultured Cells by Sonoporation <i>In Vitro</i> ," <i>Ultrasound in Med. &amp; Biol.</i> , Vol. 23, No. 6, pp. 953-959, 1997.	
	124	Fechheimer, et al. "Transfection of Mammalian Cells with Plasmid DNA by Scrape Loading and Sonication Loading," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 84, pp. 8463-8467, December 1987.	
	125	Feldman, et al. "Optimal Techniques for Arterial Gene Transfer," <i>Cardiovascular Research</i> , 35 (1997) pp. 391-404.	
	126	Kim, et al. "Ultrasound-Mediated Transfection of Mammalian Cells," <i>Human Gene Therapy</i> , 7:1339-1346 (July 10, 1996).	
	127	Kotnis, et al. "Optimisation of Gene Transfer into Vascular Endothelial Cells Using Electroporation," <i>Eur J Vasc Endovasc Surg</i> , 9, 71-79 (1995).	
	128	Porter, et al. "Interaction of Diagnostic Ultrasound with Synthetic Oligonucleotide-Labeled Perfluorocarbon-Exposed Sonicated Dextrose Albumin Microbubbles," <i>J Ultrasound Med</i> , 15:577-584, 1996.	
	129	Tsurumi, et al. "Direct Intramuscular Gene Transfer of Naked DNA Encoding Vascular Endothelial Growth Factor Augments Collateral Development and Tissue Perfusion," <i>Circulation</i> , 1996;94:3281-3290.	
	130	Unger, et al. "Ultrasound Enhances Gene Expression of Liposomal Transfection," <i>Investigative Radiology</i> , Vol. 32, No. 12, pp. 723-727, 1997.	
	131	Wyber, et al. "The Use of Sonication for the Efficient Delivery of Plasmid DNA into Cells," <i>Pharmaceutical Research</i> , Vol. 14, No. 6, pp. 750-756, 1997.	

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Re	132	Hynynen, et al. "Small Cylindrical Ultrasound Sources for Induction of Hyperthermia via Body Cavities of Interstitial Implants," <i>Arizona Cancer Center and Department of Radiation Oncology, University of Arizona Health Sciences Center</i> , Vol. 9, No. 2, pp. 263-274, 1993	
	133	Lee, et al. "Arrays of Multielement Ultrasound Applicators for Interstitial Hyperthermia," <i>IEEE Transactions on Biomedical Engineering</i> , Vol. 46, No. 7, July 1999.	
	134	Maywal, et al. "Experience with Atraumatic Vascular Diagnosis with the aid of the Ultrasonic Doppler Technique," <i>Electromedica</i> , Vol. 2, pp. 43-48, 1976.	
	135	Japanese Journal of Cancer Research, Vol. 81, No. 3, pp. 304-308, March, 1990. <i>Sumita et al.</i> RS 10/11/06	
	136	Cancer Letters, Vol. 78 (1-3), pp. 177-181, 1994. <i>Tachibana et al.</i> RS 10/11/06	
RS	137	Cancer Letters, Vol. 72, pp. 195-199, 1993. <i>Tachibana et al.</i> RS 10/11/06	

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